

DL-A-TOCOPHERYL ACETATE



Coversheet for Certificate of Analysis

Productcode : 0420085
Lot No. : UT24100247
Analysis No. : L92163

CfC Number : 05690446
Articlecode : 0420085301
Sales Name : 5 KG PE PAIL DL-A-TOCOPHERYL ACETATE
Manufacturing Date : 29-SEP-2024
Best Use Before Date : 28-SEP-2028
Delivery Note No. 1124189677
Destination : Argentina
Customer Ref. No : 4502130636
Customer Article No: 0420085301
Customer Name: DSM NUTRITIONAL PRODUCTS ARGENTINA
S.A., Colectora Este de Autopista
Panamericana km 25

Article desc. CoA
Comment

CERTIFICATE OF ANALYSIS

**DSM**

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DL-A-TOCOPHERYL ACETATE

Product Code:	0420085	Manufacturing Date:	29-Sep-2024
Analysis Number:	92163	Release Date:	21-Oct-2024
Lot Number:	UT24100247	Best Use Before:	28-Sep-2028

Test	Test Method	Result	Limits/Specification
Appearance:	Visual	clear viscous oil	clear viscous oil
Color:	Visual	slightly yellow	colorless, almost colorless, slightly yellow, slightly greenish-yellow
Identity (GC):	Gas chromatography	corresponds	corresponds
Optical rotation:	Polarimetry	0.00 °	-0.01 - +0.01 °
Heavy metals:	ICP-MS		
Heavy metals (total)		corresponds*	≤ 10 ppm
Lead		corresponds*	≤ 2 ppm
Arsenic		corresponds*	≤ 1 ppm
Mercury		corresponds*	≤ 0.1 ppm
Cadmium		corresponds*	≤ 0.5 ppm
Residual solvents:	Gas chromatography		
Pyridine		corresponds*	≤ 80 ppm
Toluene		corresponds*	≤ 80 ppm
Acidity:	Titration	<0.1 mL 0.10 N NaOH	≤ 1.0 mL 0.10 N NaOH
dl-α-Tocopheryl acetate and related substances:	Gas chromatography		
Impurity A		0.2 %	≤ 0.5 %
Impurity B		0.6 %	≤ 0.6 %
Impurity C (free Tocopherol)		0.07 %	≤ 0.5 %
Sum of impurities D + E		0.5 %	≤ 1.0 %
Any other impurity 1 (RRT:0.94725)		0.09 %	≤ 0.25 %
Any other impurity 2 (RRT:1.0475)		0.12 %	≤ 0.25 %

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Test	Test Method	Result	Limits/Specification
dl- α -Tocopheryl acetate and related substances:, cont.	Gas chromatography		
Any other impurity 3 (RRT:1.0635)		0.09 %	≤ 0.25 %
Any other impurity 4 (RRT:1.125)		0.08 %	≤ 0.25 %
Any other impurity 5 (RRT:1.142)		0.07 %	≤ 0.25 %
Any other impurity 6 (RRT:1.1805)		0.15 %	≤ 0.25 %
Total impurities		2.1 %	≤ 2.5 %
Assay (Ph.Eur.)		98.0 %	96.5 - 102.0 %
Assay (USP/FCC)		98.3 %	96.0 - 102.0 %

*) checked at regular intervals

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This lot has been analyzed against the substance specifications given above and released. The manufacturing and control records have been reviewed by our authorized Quality organization. The lot has been produced in conformity with applicable regulations and Good Manufacturing Practices for the uses stated in DSM Product Data sheet. A QA comment will be presented below if there is any deviation requiring restriction in the use of this lot.

Please consult your local representative or visit the DSM Customer Portal online for further compendial and compliance documentation.

Sandra Schoebel, Quality Assurance Manager

(This document has been generated and signed electronically)

DSM Nutritional Products Ltd
Quality Assurance

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DSM Nutritional Products Ltd
Branch Site Sisseln
Hauptstrasse 4, CH-4334 Sisseln

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CoA ID: 298752
Date of Issue: 21-Oct-2024